

## Printer Specifications

### Printing

- Printing method:** Laser beam scanning and dry electrophotographic process
- Resolution:** 300 X 300 dpi
- Printing speed:** 6 pages per minute (letter or A4) (depending on the font and quantity of data)
- First print:** Less than 25 seconds with A4/letter
- Warm-up time:** 70 seconds or less at normal temperature

### Internal modes:

- ESC/P 9-pin printer emulation (FX-86e/286e)
- ESC/P 24-pin printer emulation (LQ-2500)
- HP LaserJet series IIP emulation

**IC card slots:** 2 slots for fonts or identity cards

### Resident fonts:

HP LaserJet series IIP mode

Courier 10cpi	Upright/Italic'	P/L
Courier 10cpi Bold	Upright	P/L
Courier 12cpi	Upright/Italic*	P/L
Courier 12cpi Bold	Upright	P/L
Line printer 16.66cpi	Upright	P/L

P:Portrait, L:Landscape

\* The Italic, Bold and Landscape effects are created internally.

### FX and LQ modes

Courier 10	Upright/Italic*	Medium/Bold	P/L
EDP 16.66	Upright/Italic*	Medium/Bold*	P/L
Prestige 12	Upright/Italic*	Medium/Bold*	P/L*
Prestige 20	Upright/Italic*	Medium/Bold*	P/L*

P:Portrait, L:Landscape

These effects (Italic, Bold, and Landscape) are created internally.

### External fonts

Optional fonts provided with font cards or cartridges  
Download fonts

### Paper and paper delivery

#### Paper specifications

##### Types:

Plain paper

Application paper:

- Gummed labels
- Envelopes
- Overhead projector (OHP) sheets
- Colored paper
- Cardstock

Epson does not recommend or guarantee the use of any particular brand of paper. Because paper characteristics are subject to change by individual manufacturers, it is your responsibility to ensure the quality of paper used with the printer.

##### Paper weight:

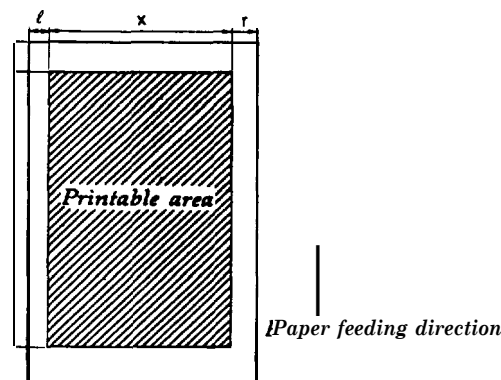
Plain paper: 16 - 24 lb, (60 - 90 g/m<sup>2</sup>)  
Cardstock: 24 - 42 lb, (90 - 157 g/m<sup>2</sup>)

##### Paper size:

Paper:	Type	Size
	A4	210 X 297 mm
	A5	148 X 210 mm
	B5	182 X 257 mm
	F4	210 X 330 mm
	Letter	8.5 X 11 inches
	Legal	8.5 X 14 inches
	Half-Letter	5.5 X 8.5 inches
	Executive	7.25 X 10.5 inches
	Government Legal	8.5 X 13 inches
	Government Letter	8.0 X 10.5 inches
Envelope:	Monarch	3 7/8 X 7 1/2 inches
	Commercial -10	4 1/8 X 9 1/2 inches
	DL	110 X 220 mm
	C5	162 X 229 mm

# EPL-7000 LASER PRINTER

## Printable area:



## HP L-JET2P mode

Paper Size	<i>l</i>	<i>x</i>	<i>r</i>	<i>t</i>	<i>y</i>	<i>b</i>
A4	71	2380	71	59	3407	59
A5	72	1648	72	56	2380	56
B5	72	2050	71	60	2936	59
Letter	75	2450	75	60	3200	60
Legal	75	2450	75	60	4100	60
Half letter	75	1550	75	60	2450	60
Executive	75	2075	75	60	3050	60
G-Legal	75	2450	75	60	3800	60
G-Letter	75	2300	75	60	3050	60
F4	71	2380	71	60	3798	60
Commercial 10	75	1137	75	60	2750	60
Monarch	75	1062	75	60	2150	60
C5	71	1813	71	59	2604	59
DL	71	1199	71	59	2498	59

(Units = dots at 300 dpi.)

## FX and LQ emulation modes

Paper size	<i>l</i>	<i>x</i>	<i>r</i>	<i>t</i>	<i>y</i>	<i>b</i>
A4	75	2330	75	75	3358	75
A4 (80 columns)	50	2400	30	75	3358	75
A5	75	1598	75	5	2330	75
B5	75	2000	75	75	2886	75
Letter	75	2400	75	75	3150	75
Legal	75	2400	75	75	4050	75
Half letter	75	1500	75	75	2400	75
Executive	75	2025	75	75	3000	75
G-Legal	75	2400	75	75	3750	75
G-Letter	75	2250	75	75	3000	75
F4	75	2330	75	75	3748	75
F4 (80 columns)	50	2400	30	75	3748	75
Commercial 10	75	1087	75	75	2700	75
Monarch	75	1012	75	75	2100	75
C5	75	1763	75	75	2554	75
DL	75	1149	75	75	2448	75

(Units = dots at 300 dpi )

## Range of paper width and length:

	Width	Length
Paper cassette	3.86 – 8.5 inches (98 – 216 mm)	6.3 – 14 inches (160 – 356 mm)
Manual feed	3.62 – 8.5 inches (92 – 216 mm)	6.3 – 14 inches (160 – 356 mm)

## Special sizes:

Any size within the usable paper size range listed above.

## Paper feed alignment and direction:

Center alignment for all sizes.

## Paper feed:

Automatic or manual feed

## Input paper supply (20 lb. or 75 g/m<sup>2</sup> paper):

250 sheets

250 sheets (with option)

## Paper eject:

Face-up or face-down selection.

## Paper eject capacity (20 lb. or 7.5 g/m<sup>2</sup> paper):

Face-down 250 sheets

Face-up 100 sheets (with option)

## Consumable products

### Imaging cartridge (SO51003):

storing temperature: 32 to 86°F (0 to 30°C)

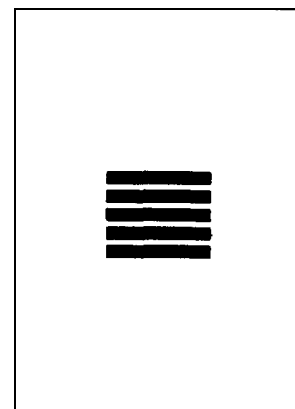
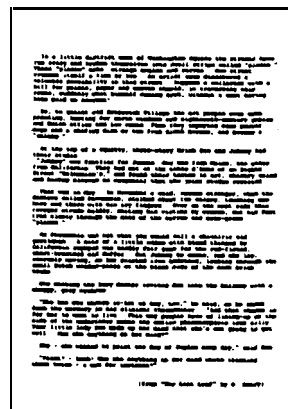
Storing humidity: 30 to 85% RH

Shelf life: Should be used within 18 months after production.

### Life:

Typical imaging cartridge life is about 6000 pages under the following conditions:

Letter-or A4-size paper, continuous printing, and 5% print ratio. Examples of a 5% print ratio are shown on the next page.



The number of pages that you can print with an imaging cartridge varies depending on the type of printing you do. If you print a few pages at a time or print dense text exceeding the 5% print ratio, your cartridge may print fewer pages.

### Ozone filter (SO91001):

Replace every six months.

## Mechanical

### Dimensions and weight:

Height: 7.3 inches (185 mm)

Width: 19.5 inches (495 mm)

Depth: 15.0 inches (381 mm)

Weight: approx. 18.2 Kg (40 lb.) including paper cassette and imaging cartridge.

### MPBF (Mean Prints Between Failures):

30,000 sheets (3,000 per month X 10 months)

### MTBF (Mean Time Between Failures):

3,000 hours

**Durability:** 5 years or 180,000 sheets (3,000 per month X 60 months); whichever comes first.

## Electrical

**Voltage:** 120 V model: 90 to 132 VAC

**Rated frequency range:** 50 Hz to 60 Hz  $\pm$  3Hz

**Power consumption:** Less than 550 W

**Insulation resistance:** 2 M $\Omega$  minimum

**Dielectric strength (between AC line and chassis):**  
120 V model can withstand 1500 VAC rms for one minute or 1650 VAC rms for one second.

## Controller hardware

**CPU** 68000, 12.5 MHz

**RAM** Standard: 0.5 MB (expandable up to 6 MB)

## Environmental

**Temperature:** Operation: 50° to 95° F (10 to 35° C)  
Storage: 32° to 95° F (0° to 35° C)

**Humidity:** Operation: 1.5 to 85 % RH  
Storage: 30 to 85 % RH

**Altitude:** 8200 feet (2500 meters) maximum

**Levelness:** Should be kept level

## Data format

**Word length:** 7 or 8 bits

**Parity:** none, odd or even

**Stop bits:** 1 or 2

**Printer ready protocol:** enabled (DTR and XON/XOFF protocol set to ON.)

The data format can be set using functions and menu options in SelecType.

## Baud rate

300, 600, 1200, 2400, 4800, 9600, 19,200 bits per second.

## Signal level

RS-232C: Conforms to EIA

## Handshaking

The printer's serial interface can use DTR (Data Terminal Ready) signal levels and XON/XOFF communication protocols either separately or in combination. When the vacant area for data in the input buffer drops to 128 bytes, the printer outputs an XOFF code or sets the DTR signal level to low (MARK, indicating that it cannot receive more data).

Once the vacant area for data in the buffer recovers to 256 bytes, the printer outputs an XON code or sets the DTR flag to high (SPACE), indicating that it is again ready to receive data.

## Error handling

A . character is printed if a parity error, framing error, or over-run error is detected.-

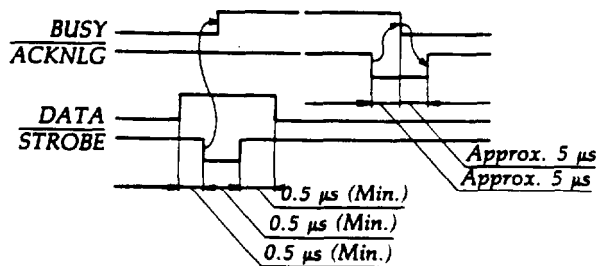
## Connector

D-sub 25-pin connector

## Interface Specifications

### Interface timing

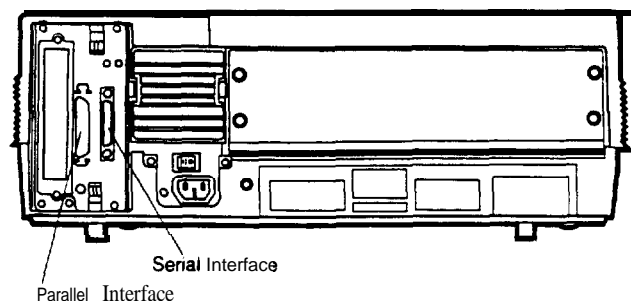
The figure below shows the timing for the parallel interface.



**Signal level:** TTL compatible

### Serial interface

The printer's resident serial interface can be set for either RS-232C or RS-422 operation. These interfaces have the following characteristics.



## Options

### Lower paper cassette

#### Electrical

**A C power supply:** DC 24V supplied by the printer

**Insulation resistance:-** 10M ohm minimum

#### Dielectric strength (between AC line and chassis):

Can withstand 3750 VAC rms for one minute

**Power consumption:** 4W or less

### Paper and paper delivery

**Size:** Letter (8 1/2 X 11 inches)

**Weight:** 16 - 24 lb. (60 - 90 g/m<sup>2</sup>)

**Paper feed:** Automatic feed delivery system. Tray capacity up to 250 sheets (20 lb. or 75 g/m<sup>2</sup> paper)

**Feeding speed:** For first sheet, 25 seconds or less (letter-size paper).  
For subsequent sheets, 6 pages per minute (letter-size paper).

**Types:** Plain paper, such as copier paper, memo sheets, and letterheads

#### Mechanical

**Dimensions and weight:** Without the printer:

Height: 3.7 inches (95.7mm)  
Width: 19.1 inches (487mm)  
Depth: 19.6 inches (500 mm)  
Weight: 11.0 lb. (5.0kg)

### Face-up output tray

**Dimensions and weight:** Without the printer:

Height: 7.7 inches (198mm)  
Width: 12.2 inches (311mm)  
Depth: 9.6 inches (246 mm)  
Weight: 1.5 lb. (0.7kg)

**Paper eject capacity:** 100 sheet (75 g/m<sup>2</sup> or 20 lb. paper)

## Application Software

### HP LaserJet series IIP emulation mode

If you have not changed the factory setting, your printer is in HP emulation mode. Simply use your application program's setup menu to choose the first printer available from the list of printers below. They are listed in order of preference. (For more about HP emulation, see Appendix C.)

HP LaserJet series IIP™  
HP LaserJet series II™  
HP LaserJet Plus™  
HP LaserJet 500™  
HP LaserJet™

If none of these printers are listed among your program's options, select any printer that uses the HP Printer Command Language (PCL).

### Epson LQ and FX emulation modes

Make sure you have set the SelecType Level 2 MODE option to LQ or FX as described in Chapter 3. Then, use your application program's setup menu to select a corresponding printer driver from the list below. They are listed in order of preference.

LQ Mode	FX Mode
SQ-2500	FX-1000/800 (286e/86e)
LQ-2500	FX-85
LQ-1050/850	FX-80
LQ-1000/800 (expanded ESC/P)	
LQ-500	
LQ-1500 (with version 2 ROM)	
LQ printer	

If none of the printers listed above are available from your program, choose the first available of the following: EX, JX, LX, RX, MX, Epson printer, Standard printer, or Draft printer.

## Font Cartridges

Font cartridges allow you to use **many** different styles of type in addition to the internal fonts resident in your printer. The printer has one slot for font cartridges, and a variety of font cartridges are available from your dealer.

### Compatible font cartridges

The table below lists all font cartridges that are compatible with the EPL-7000. The manual for each font cartridge contains samples of the characters and symbol sets the font cartridge provides.

<b>Note:</b> Some of the fonts contained on optional font cartridges are duplicated by the resident fonts in the printer. See Appendix B for sample fonts and character sets.		
Supplier	Cartridge number	Cartridge
HP	92286A	COURIER 1
	92286B	TMS PROPORTIONAL 1
	92286C	INTERNATIONAL 1
	92286D	PRESTIGE ELITE
	92286E	LETTER GOTHIC
	92286F	TMS PROPORTIONAL 2
	92286G	LEGAL ELITE
	92286H	LEGAL COURIER
	92286J	MATH ELITE
	92286K	MATH TMS
	92286L	COURIER P&L
	92286M	PRESTIGE ELITE P&L
	92286N	LETTER GOTHIC P&L
	92286P	TMS RMN P&L
	92286Q	MEMO 1
	92286R	PRESENTATIONS 1
	92286T	TAX 1
	92286U	FORMS Portrait
	92286V	FORMS Landscape
	92286W	3-of-9/OCR A
	92286X	EAN / UPC / OCR B

Supplier	Cartridge number	Cartridge
	92286Y 62286Z 92290S1 90090S2 92266PC C2055A C2053A C2053A C2053A C2053A C2053A C2053A C2053A C2053A	PC COURIER 1 MICROSOFT 1  Pro collection #C01 Great Start # C0 1 WordPerfect #C02 Microsoft #C03 Polished Worksheets #C04 Persuasive Presentations #C05 Forms Etc. #C06 Ear Codes & More #C07 Text Equations XC08 Global Text
Anacom		Alfajet MX-1 Maxi-One Cartridge Alfajet PC Maxi-Pro Cartridge
Peripherals		JetFont SuperSet Jetfont 12/30 Jetfont 4-in-1 JetFont SuperSet International
Everex		HardFont Cartridge B HardFont Cartridge F HardFont Cartridge T HardFont Cartridge Z HardFont Cartridge LGL HardFont Cartridge SST HardFont Cartridge SST HardFont Cartridge All-m-1 HardFont Cartridge A-T0-Z
IQ		Super Cartridge 1 Super Cartridge 2 Super Cartridge 2L Super Cartridge LC Super Cartridge 2WP
Pacific		25 Cartridge in One Original Version 25 Cartridge in One 172 Headlines in a Cartridge
UDP		DT1-TMS RMN DT2-HELV 65-in-One

Supplier	Cartridge number	Cartridge
Intercon		PHONT + PRO II P



**CAUTION:** Use only the HP font cartridges listed above in your EPL-7000. You cannot use other HP font cartridges with this printer, or you may damage your printer.

You can use each font cartridge in only HP emulation mode. See the font card manual for information on the printer mode to use. To change the printer mode, use the SelecType Level 2 CH CONFIG option described in Chapter 3.

### Inserting a font cartridge

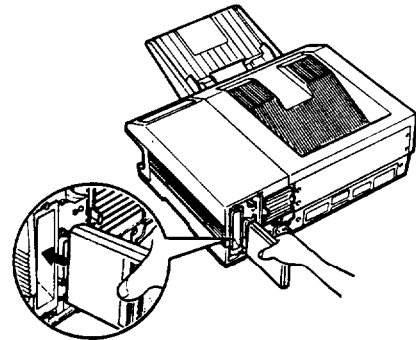
Optional font cards are easy to use with your printer. You can insert a font cartridge into the slots at the left back of the printer. Follow these steps to insert a font cartridge:



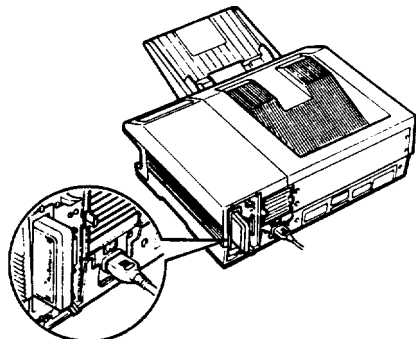
#### CAUTIONS:

- Never insert or remove a cartridge while the printer is on line, in SelecType mode, or while the printer is resetting (after you press RESET).
- Be careful when you insert or **remove** a font cartridge. You can damage the cartridge by trying to insert it the wrong way or by using too much force.
- Do **not** touch the connector on the bottom of the cartridge or the connector in the printer's cartridge slots. You **could** damage the cartridge or printer.

1. If the CH P or CH S light is flashing, press FEED to print any data remaining in the buffer.
2. Take the printer off line or turn off the power.
3. Hold the cartridge so that the label on the cartridge faced left, as shown below.



4. Press firmly until the cartridge snaps into place.



**CAUTION:** If the message REMOVE CARD appears on the display, you inserted the cartridge when the printer was on line or **when** the printer's memory contained data. If you see this message, remove the cartridge, press **CONTINUE**; then return to step 1.

5. If the power is on, press **ON LINE** to set the printer on line. If the power is off, simply turn on the printer.

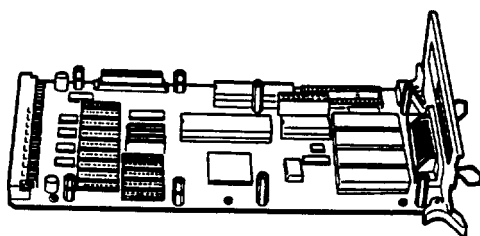
## Memory Options

The EPL-7000 comes with .5 MB of standard RAM. If you want to share the printer or if you regularly print complex pages using graphics and downloaded fonts, you may need to increase the RAM of your printer. You have three options for adding memory to your printer:

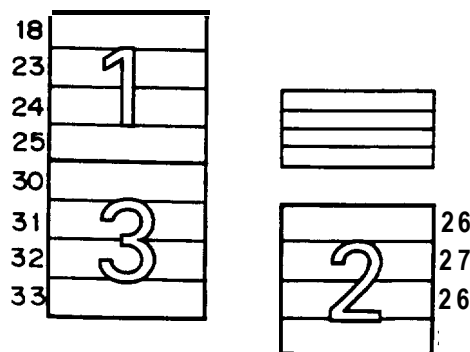
- Increase the memory on the main controller board with memory chip sets. You can install up to three chip sets for a total of 2 MB of RAM.
- Add one of two available memory expansion boards. The C822031 comes with .5 MB standard RAM, and the C822011 comes with 2 MB standard RAM.
- Increase the memory on your memory expansion board with memory chip sets. Install up to four chip sets to the .5 MB board for a total of 2.5 MB additional RAM, or add up to four chip sets to the 2 MB board for a total of 4 MB additional RAM.

Note: You must first expand the memory on your controller board to the maximum 2 MB capacity before you can add an optional memory board.

The RAM chip sockets are located on the connector side of the controller board as shown below.



As shown, there are three sectors, each with four chip sockets. The chip sockets are easily identified by the IC number.



The three sectors must be filled in the order given below:

Sector	IC number	Total RAM when filled
1	18, 23, 24, 25	1.0 MB
2	26 - 29	1.5 MB
3	30 - 33	2.0 MB

1. Turn on the printer power and watch the display for the following:
  - All the indicator lights on the panel light briefly
  - The message ROM Check appears
  - The message RAM Check x.x MB appears.
2. Make sure that the amount of RAM displayed by the RAM check status message matches the new total RAM memory as shown below:

Printer controller board	Total RAM when filled
Board without chip set	0.5 MB
Board with 1 chip set (4 chips)	1.0 MB
Board with 2 chip sets (8 chips)	1.5 MB
Board with 3 chip sets (12 chips)	2.0 MB

If the correct amount of RAM does not appear, turn off the power and remove the board to check that the chip set is in the correct sector and that each chip is well-seated in its socket. If the RAM check message is still incorrect, contact your service representative for assistance.

If insufficient memory is still a problem even after you increase the memory with memory chip sets, you can install a memory expansion board as described in the next section.

## Memory Expansion Boards

If you are having difficulty printing complex, graphics-intensive pages and you have already increased your printer's controller board memory to the maximum 2 MB with memory chip sets, you may need to install a memory expansion board.

The .5 MB memory expansion board is an economical choice for adding memory to your printer. This board adds .5 MB of additional RAM to the printer. You can increase the base memory on this board to a total of 2.5 by adding up to four memory chip sets. Combined with the 2 MB on your controller board, the .5 MB board can increase total available RAM to 4.5 MB.

The 2 MB memory expansion board adds an extra 2 MB of RAM to your printer. In addition, you can increase the base memory on the expansion board to a maximum of 4 MB by installing up to four optional memory chip sets. Thus, you can increase printer memory to a maximum of 6 MB with the 2 MB board.

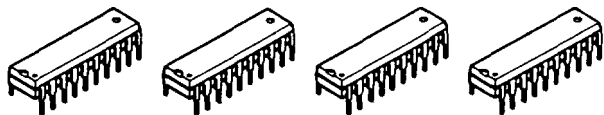


**CAUTION:** A memory expansion board can be installed only after you have increased the printer's controller board memory to the maximum 2 MB with the optional memory chip set. See Installing the memory chip set, earlier in this appendix for more information.

The procedure for adding additional memory to the memory expansion board is the same for either board. You can use the same type of memory chip sets that you used to increase the memory on your controller board.

### Memory chip set (#5900, C829042)

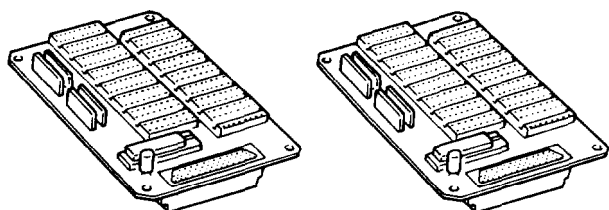
You can increase your printer's current 0.5 MB of RAM to a total of 2.0 MB by installing memory chip sets. Each set of four RAM chips increases the printer memory by increments of 0.5 MB.



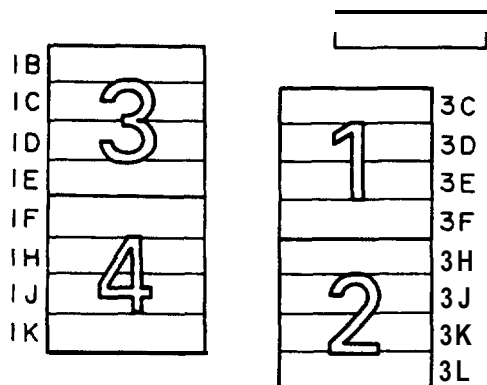
### Memory expansion boards (C822011, C822031)

Two optional memory expansion boards are available to supplement your printer's memory. The economical CS22031 memory board comes with a standard .5 MB of additional RAM. Add memory chip sets to this board and increase your printer's RAM to 4.5 MB, enough memory to print complex graphics.

The more powerful C822011 memory board comes with a standard 2 MB of additional RAM. Add memory chip sets to this board and you can increase your printer's RAM to a total of 6 MB to handle the most demanding print jobs.



There are four sectors on the memory expansion board, each with four chip sockets. The chip sockets are identified by the IC number, as shown below.



The four sectors must be filled in the order given below:

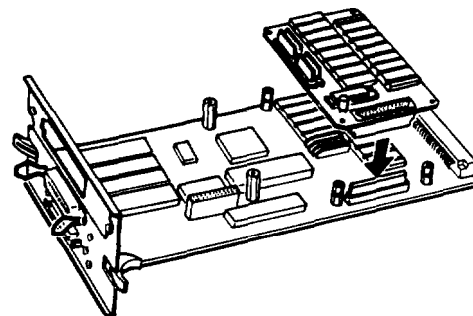
Sector	IC number	Total RAM when filled	
		2 MB Board	.5 MB Board
1	3C, 3D, 3E, 3F	2.5 MB	1.0 MB
2	3H, 3J, 3K, 3L	3.0 MB	1.5 MB
3	1B, 1C, 1D, 1E	3.5 MB	2.0 MB
4	1F, 1H, 1J, 1K	4.0 MB	2.5 MB

If all four sectors on the board are empty, install the first chip set in sector 1. If sector 1 is already filled, install the chip set in sector 2. If sector 1 and 2 are filled, install the chip set in sector 3; and if sector 1, 2, and 3 are filled, install the chip set in sector 4.

If desired, install additional memory chip sets to the optional memory board as described earlier in this section.

**Note:** This section shows the installation of the 2 MB memory expansion board. The procedure is the same for the 2 MB or the .5 MB board.

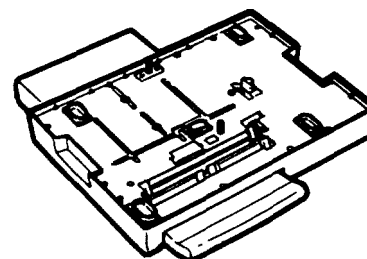
Locate mating connector CN5 on the controller board. Lower the memory expansion board into position as shown below, and carefully insert the connector on the board into the mating connector.



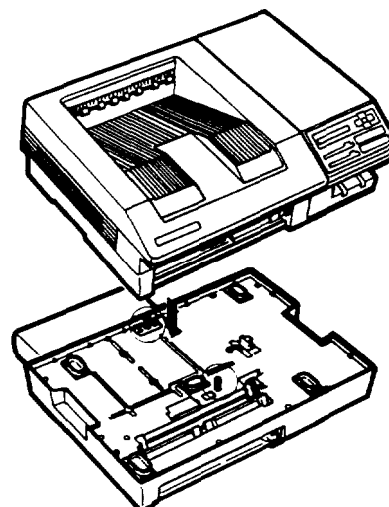
### Paper Handling Options

#### The lower paper cassette (C812051)

The optional lower paper cassette fits directly beneath the printer and allows you to feed up to 250 sheets of **paper** into the printer. The optional cassette supplements your standard paper cassette's 250-sheet capacity.

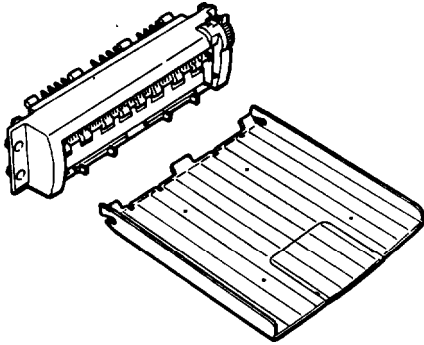


Guide the printer using the two alignment pins as shown below until it rests on top of the lower paper cassette.

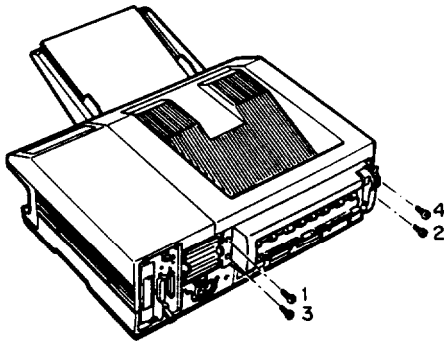


## The face-up output tray (C812071)

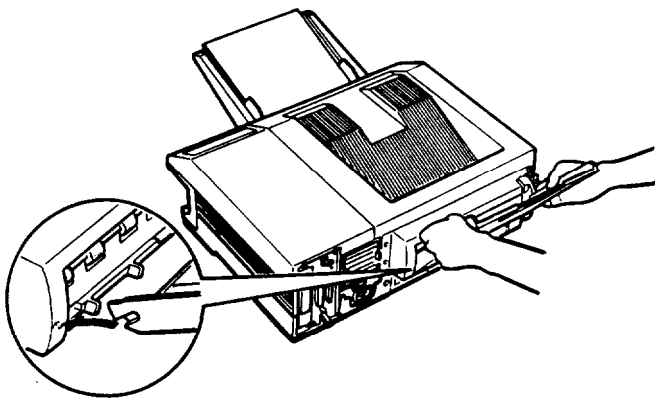
The face-up output tray delivers paper face-up for immediate viewing of your printed output. Use the face-up output tray for printing that requires a straight-through paper path, such as labels, heavy paper, and overhead transparencies.



Use the screwdriver to secure the drive unit to the printer. First, partially tighten the two diagonally positioned screws in the sequence shown below. Repeat this gradual tightening process until all screws are fully tightened.



To install the face-up tray, fit the notches of the tray over the pins of the drive unit, as shown below.



## Status and Error Messages

This chapter supplies solutions to problems you may encounter.

If an error occurs, your best source of information is the display on the control panel. The error messages displayed there tell you what is wrong and, in some cases, indicate the actions you should take to correct the problem. Status messages also appear on the display during the printer's normal operation. They indicate the printer's current status.

This section contains an alphabetical list of status and error messages you may encounter and includes the steps you need to take to correct any problems.

Note: In some cases, the red CONTINUE light flashes when an error is detected. This requires you to correct the problem and then press the CONTINUE button to clear the error. However, if the AUTO CONT option in SelecType is set to ON, some errors may clear automatically even though the problem remains. In most instances, you should leave AUTO CONT set to OFF.

Status messages are preceded by [S], warning messages are preceded by [W], and error messages are preceded by [E]. In some cases the message you see on your display also shows the printer mode.

### [E] ADD MEMORY FOR CH-X

The printer has insufficient memory available in the channel displayed. You may have changed the printer mode, increased the RX-BUFFER setting, or changed the MEMORY SHARE setting. To correct the error, add memory. You can also decrease the RX-BUFFER setting or change the MEMORY SHARE setting in SelecType Level 2.

### [E] CARD MEMORY OVERFLOW

This message indicates that the combined memory requirement of the cards in slots A and B exceeds 4 Mbytes. To correct this problem, remove one or more of the cards and then press the CONTINUE button.

### [S] COPY END X/X

Multiple-copy printing is cancelled (you pressed the **COPY END** button when the printer was off line).

### [E] COVER OPEN

The printer cover is open or the imaging cartridge is not installed. Close the printer cover or install the imaging cartridge. Then press CONTINUE to continue printing.

### [S] DATA

The printer has received data but is not yet printing, or the printer has received data and is off line. To resume printing, press **ON LINE** if the printer is off line, or press the **FEED** button.

### [E] FEED JAM


Paper is not feeding into the printer from the specified cassette or has jammed on its way into the printer. If the paper is jammed at the paper cassette, open the printer case, remove the jammed paper from the standard paper cassette or optional paper cassette and then close the printer. See Clearing a feed jam later in this chapter for more information.

### [S] GRAPHIC DRAWING

Graphics are being created.



- [E] **ILLEGAL CARD**  
A card or cartridge in a particular slot cannot be read. The letter on the right side of the display indicates the slot containing the card or cartridge that cannot be read. To correct this error, take the printer off line and then press CONTINUE. If the error message remains, make sure the printer is off line and remove the card or cartridge. If the red CONTINUE light still flashes, press CONTINUE.
- [S] **INITIALIZE**  
The printer is being initialized (reset) to the factory settings.
- [E] **INSUFF. MEMORY**  
The printer has insufficient memory available for the task you have given it. To correct the error, press CONTINUE. If the message remains, press RESET or perform INITIALIZE as described in Chapter 2.
- This error can also be cleared by turning the printer off and back on again. However, it may be necessary to simplify the page you are trying to print or add more memory to the printer. See Appendix A for information on memory options.
- [E] **PAGE BUFFER FULL**  
Text or graphics data has filled the printer's buffer and an incomplete page is ejected. Press CONTINUE to clear the error. You may need to add more memory to the printer. See Appendix A for information on memory options.
- [S] **PAPER FEEDING**  
The printer is feeding paper.
- [E] **PAPER JAM**  
Paper is not being fed into the printer or paper is jammed inside the paper path. You need to open the printer and clear the jammed paper as described, later in this chapter.
- [E] **PAPER OUT**  
There is no paper in the standard paper cassette and the optional lower paper cassette (if installed). Or, the paper set lever is in the manual position and you are not feeding pages correctly. Insert more paper into the selected paper cassette or manually feed a sheet of a paper into the printer. See Chapter 4 for more information on loading paper.
- [E] **PAPER OUT SET AUTO XXX**  
There is no paper in any of the paper cassettes. The right column of the display prompts you to load the correct paper size into the paper cassette.
- [E] **PAPER OUT SET OPT XXX**  
There is no paper in the optional lower paper cassette. The right column of the display prompts you to load the correct paper size into the paper tray of the lower paper cassette.
- [E] **PAPER OUT SET STD XXX**  
There is no paper in the standard paper cassette. The right column of the display prompts you to load the correct paper size into the standard paper cassette.
- [E] **PAPER SIZE ERROR**  
The paper size you selected with SelecType (or the default size if you have not selected a size) does not match the paper loaded in the selected paper cassette. Press CONTINUE to clear the error. Insert the correct paper or change the P-SIZE setting with SelecType as described in Chapter 3.
- [S] **PRINTING**  
The printer has received data and is printing.
- [S] **PRINT STOP X/X**  
The printer stops printing during a multi-copy print operation.
- [S] **RAM Check X.X MB**  
The printer is checking RAM (X.X = capacity).
- [S] **READY**  
The printer is ready to print.
- [E] **REINSERT CARD**  
If this message appears on the display, YOU may have removed a font card or cartridge while the FEED light was still lit or while the printer was on line. To correct the error, make sure the printer is off line. Next, reinsert the card or cartridge into the correct slot and press CONTINUE.
- [E] **REMOVE CARD**  
You may have inserted a font card or cartridge while the printer was on line or while the FEED light was on. Data still remains in the printer's buffer. To correct this error, take the printer off line. Then remove the card or cartridge and press CONTINUE. Before you reinsert the card or cartridge, make sure that all data in the buffer has been printed and that the printer is off line. If the FEED light is on, press FEED to print out the remaining data.
- [E] **RESELECT TRAY**  
The optional lower paper cassette is not installed and the INPUT option is set to OPT or AUTO. Install the optional lower paper cassette and then press CONTINUE. If you decide not to use the optional lower paper cassette, simply press CONTINUE and paper is automatically selected from the standard paper cassette.
- [S] **RESET**  
The printer is being reset to the previous settings in the macro specified with LOAD MACRO option in SelecType Level 1.
- [S] **ROM Check**  
The printer is checking ROM.
- [E] **SAVE MEMORY OVERFLOW**  
If this message appears when you are trying to save a macro with the SAVE MACRO option in SelecType Level 1, the printer does not have enough memory to save any additional macros. To correct this error, delete unused macros using the DELETE MACRO option in SelecType Level 1.
- [E] **SERVICE REQ. CXXX**  
A controller error has been detected. Write down the error number that appears in the right column of the display and turn off the printer. Turn the printer back on after a few seconds to see if the error message still appears. If it does, turn off the printer, unplug the power cord from the electrical outlet, and contact a qualified service person.
- [E] **SERVICE REQ. E00XX**  
A print engine error has been detected. Write down the error number that appears in the right column of the display and turn off the printer. Turn the printer back on after a few seconds to see if the error message still appears. If it does, turn off the printer, unplug the power cord from the electrical outlet, and contact a qualified service person.
- [E] **SET FULL PRINT**  
This message may appear when you are trying to print graphics or a mix of text and graphics. Press CONTINUE and then change the FULL PRINT setting in SelecType Level 1. See Chapter 3 for more information about setting this option.

- [S] **STANDBY MODE**  
When both CH P and CH S remain off for about thirty minutes, the printer enters standby mode and this message appears. press any panel button or send data to warm up the printer. You can turn off the standby mode by setting the SelecType Level 2 STANDBY option to DISABLE.
- [E] **START UP ERROR**  
If this message appears when you turn on the printer, the power may have been turned off while the printer was performing a save or reset operation. To clear this error, press  or RESET to return the printer settings to their defaults.
- [W] **TONER LOW**  
The printer is almost out of toner. When you see this message, you can still print up to 25 more pages. The imaging cartridge must be replaced soon.
- [E] **TONER OUT**  
The imaging cartridge must be replaced. Replace the imaging cartridge as described in Chapter 6.
- [E] **TRAY SET AUTO XXX**  
The paper size setting does not match the paper loaded in the specified paper cassette. The right column of the display indicates the expected paper size and the currently selected cassette. You can either change the paper size setting or load the correct paper size. After you correct the paper mismatch, press CONTINUE.
- [E] **TRAY SET OPT XXX**  
The paper size setting does not match the paper loaded in the optional lower paper cassette. The right column of the display indicates the expected paper size. After you correct the paper mismatch, press CONTINUE.
- [E] **TRAY SET STD XXX**  
The paper size setting does not match the paper loaded in the standard paper cassette. The right column of the display indicates the expected paper size. After you correct the paper mismatch, press CONTINUE.
- [S] **WAIT**  
Printer is being reset after a START UP ERROR.
- [S] **WARMING UP**  
Printer is warming up.

SelecType

The SelecType function on the printer control panel allows you to control many of the printer's functions. Use SelecType's menu-based system to change your printer's configuration without using DIP switches and to select most font and print options without using software commands.

Your application program may send printer commands that temporarily override the SelecType settings. If you are not getting the results you expect, check your application software settings.

Note: New SelecType settings are in effect only until you turn off the printer, unless you save them with the Level 1 SYSTEM CONFIG option or the Level 2 P-CONFIG.SAVE option described later in this chapter.

SelecType is divided into two levels as shown below. Level 1 contains everyday printing and font selection functions, and Level 2 contains functions that are less likely to be changed frequently, such as printer mode and printer configuration. A brief description of each main menu option follows. See SelecType Options later in this chapter for detailed descriptions of all SelecType options.

Level 1	Level 2
CH SELECT	TEST PRINT
INPUT	CH CONFIG
P-SIZE	MEMORY SHARE
COPIES	CH TIMEOUT
ORIENT.	AUTO CONT.
FONT	BEEPER
STATUS SHEET	P-CONFIG. SAVE
SUB CONFIG.	FACTORY RESET
SYSTEM CONFIG.	VERSION
	STANDBY

Note: See the Quick Reference Card at the back of this manual for a map of SelecType menus and options.

SelecType Level 1 functions

CH SELECT	Selects the parallel (P) or serial (S) channel when you have set up both interfaces.
INPUT	Selects the standard or optional paper cassette.
P-SIZE	Paper size. Specifies the size of paper.
COPIES	Selects the number of copies to be printed.
ORIENT.	Orientation. Selects portrait (vertical) or landscape (horizontal) printing orientation.
FONT	Selects one of the available fonts.
STATUS SHEET	Prints a report listing the current printer settings.
SUB CONFIG.	Subconfiguration. Depending on the printer mode, controls such features as symbol set and number of text lines.
SYSTEM CONFIG	System configuration. Saves Level 1 settings, displays the amount of memory remaining, changes top and left offsets, and controls printing of complex pages.

SelecType Level 2 functions

TEST PRINT	Prints two test patterns to check printer operation.
CH CONFIG.	Channel configuration. Sets up the operating mode, interface configuration, and the size of the printer's input buffer for each channel.
MEMORY SHARE	Memory share. Specifies the proportion of the printer's memory shared between channel S and P.
CH TIMEOUT	Channel time out. If no data is sent during the specified time period, the printer switches from one channel to the other.

AUTO CONT.	Automatic continue. Permits the printer to continue printing instead of stopping under certain error conditions.
BEEPER	Turns the beeper on or off.
P-CONFIG. SAVE	Printer configuration save. Saves all <b>Level 2</b> settings as defaults so they take effect each time you turn the printer on.
FACTORY RESET	Returns all Level 1 and Level 2 settings to their factory settings.
VERSION	Displays the version numbers of the printer's firmware components such as the controller and font.
STANDBY	Conserves power by reducing power to the fixing heater when the printer is not used for 30 minutes.

This section lists all the options available when you use *SelectType*. Most options are the same whether you're working in L-JET2P, LQ, or FX emulation mode. Some of the options in Level 1, however, have a different function for each mode. These options are listed later in this chapter. See the Quick Reference Card for a map of all *SelectType* menus and options.

### Level 1 options

When you press *SelectType* once to enter Level 1, one of the Level 1 main menu options listed below appears on the display.

INPUT  
P-SIZE  
COPIES  
ORIENT.  
FONT  
STATUSSHEET  
SUB CONFIG.  
SYSTEM CONFIG.

Each of these options is described below. An asterisk (\*) indicates the factory default setting for each option.

Note: If you have set the MEMORY SHARE option in Level 2, the display shows CH SELECT whenever you enter Level 1. After you select the channel, one of the main menu options listed above appears on the display.

◆P-SIZE LETTER ▶

OTHER  
A4  
A5  
B5  
\* LETTER  
HALF LT (Half Letter)  
LEGAL  
GLT (Government Letter)  
GLG (Government Legal)  
EXE (Executive)  
F4  
MONARCH  
C10 (Commercial 10)  
DL  
C5

You can choose any of the paper sizes shown above with the P-SIZE option. The factory setting is LETTER.

◆COPIES

1

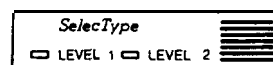
1 to 99

Use this option to print up to 99 copies of your print job. The factory setting is 1. If you select a number above one, the display keeps count of the number of copies completed and the current setting. For example, if you set the copies option to 10 and 5 copies are complete, the display shows 5/10.

## Testing the Printer

Follow these steps to select and run the test print:

1. Hold down the *SelectType* button until the LEVEL 2 indicator light goes on and TEST PRINT appears on the display.




If you have entered *SelectType* before, TEST PRINT may not be the first option to appear. If the Level 2 indicator is on, you can press the up or down arrow until TEST PRINT appears on the display. Then go on to step 2.

If you did not hold down the button long enough to enter Level 2, the LEVEL 1 indicator goes on. If this happens, press the *SelectType* button once to exit *SelectType* and repeat step 1.

2. Press  once. The display reads as follows:

PATTERN ◆1 ▶PRINT

3. To run the test, press  once more. The printer prints a test pattern of vertical lines and ejects the page face-down on top of the printer.



**CAUTION:** Never open the printer cover during printing

## Printing a Status Sheet

In addition to the test print patterns, you can print a status sheet that lists printer settings for your selected channel.

Note: The status sheet prints the printer's current settings. If you change the macro number setting for the LOAD MACRO option in the SYSTEM CONFIG submenu, the status sheet prints out the new macro settings. MACRO 0 is the factory default setting.

Follow these steps to print the status sheet:

1. Make sure that your printer is plugged in and the power is on.
2. Press *SelectType* once to enter *SelectType* Level 1.


Note: If you have used SelecType before, and if the printer is set up to use both channels, the following option appears on the display:

◀S


CH SELECT

P▶

Press ◀ or ▶ to choose your channel, then go on to step 3.

3. Hold down  until STATUS SHEET appears on the display.



4. Press  to print the status sheet.

A portion of the status sheet printout is shown below

Printer Configuration		STATUS SHEET		EPSON	
Installed Memory : 0.5Mbytes		Controller Version : 01.05 06.03			
Memory Share : S 0:10P		CH Time out : 10			
Auto Continue : OFF		Beeper : ON			
Standby : ENABLE					
CH : P		Version : 09.32			
Mode : L-JET2P					
I/F : PARALLEL					
PARALLEL (CH P)		AUTOFEED : OFF		BUSY Delay(μs) : 0	
SLCTIN : OFF					
SERIAL (CH S) : RS232C					
Word Length(bit) : 8		Baudrate(bps) : 9600		Parity : NONE	
Stop Bit : 2		DTR : ON		XON/XOFF : ON	
DSR : OFF		CTS : OFF		ENQ/ACK : OFF	
Receive Buffer : 1Kbytes					
Mode Configuration					
Input Tray : AUTO		Font : RD-0		Paper Size : LETTER	
Copies : 1		Orientation : PORT			
Sub Configuration					
Form Length : 60		Symbol Set : B			
Main Configuration					
Offset : 0					

## Using Data Dump Mode

Data dump mode is a special feature that makes it easy for experienced users to find the cause of communication problems between the printer and computer. The data dump mode produces an exact printout of the codes reaching the printer.

1. Make sure that the printer is turned off and is loaded with paper.
2. Hold down the *SelecType* button while you turn on the printer. Make sure you hold the button down until the message HEX DUMP appears on the display.
3. Run any program that causes the printer to print (either an application program or a program written in any programming language). Your printer prints out all of the codes sent to it in hexadecimal format as shown in the sample below.

\*\*\*\*\* HEX DUMP LIST \*\*\*\*\*

PAGE 1

0000	18 52 10 1B 43 45 1B 6B 00 1B 70 00 1B 63 0C 1B	.R..CE.k..p..c..
0001	74 01 1B 32 54 72 6F 75 62 6C 65 20 73 68 6F 6F	t...2Trouble shoo
0002	74 69 6E 67 20 20 20 20 00 0A 54 68 69 73 20	ting ...This
0003	63 68 61 70 74 65 72 20 64 69 73 63 75 73 73 65	chapter discusse
0004	73 20 70 72 6F 62 6C 65 60 73 20 79 6F 75 20 6D	s problems you m
0005	61 79 20 65 6E 63 6F 75 6E 74 65 72 20 61 6E 64	ay encounter and
0006	20 74 68 65 69 72 20 6C 69 6B 65 6C 79 20 73 6F	their likely so
0007	6C 75 74 69 6F 6E 73 2E 20 0D 0A 0D 0A 49 66 20	lutions. ....If
0008	61 6E 20 65 72 72 6F 72 20 6F 63 63 75 72 73 2C	an error occurs,
0009	20 79 6F 75 72 20 62 65 73 74 20 73 6F 75 72 63	your best sourc
000A	65 20 6F 66 20 69 6E 66 6F 72 6D 61 74 69 6F 6E	e of information
000B	20 0D 0A 69 73 20 74 68 65 20 64 69 73 70 6C 61	...is the displa
000C	79 20 6F 6E 20 74 68 65 20 63 6F 6E 74 72 6F 6C	y on the control
000D	20 70 61 6E 65 6C 2E 20 0D 0A	panel. ...

## Choosing a Paper Size

The printer can feed several sizes of paper automatically. To select a paper size, simply change the paper size (P-SIZE) setting with SelecType. You may also need to adjust the paper guides on the paper cassette to match the size of the paper you want to use.

Note: If you are using the optional lower paper cassette, see Appendix A for instructions on selecting a paper size.

The table below lists all of the paper sizes on the SelecType menu. Not all the sizes in this table are marked on the paper cassette, just the more commonly used paper sizes.

Paper	Dimensions
A4	210 × 297 mm
A5	148 × 210 mm
B5	182 × 257 mm
LETTER	8 1/2 × 11 inches
HALF LT (Half letter)	5 1/2 × 8 1/2 inches
LEGAL	8 1/2 × 14 inches
GLT (Government Letter)	8 × 10 1/2 inches
GLG (Government legal)	8.5 × 13 inches
EXE (Executive)	7 1/4 × 10 1/2 inches
F4	210 × 330 mm
Envelopes	Dimensions
MONARCH	3 7/8 × 7 1/2 inches
C10 (Commercial - 10)	4 1/8 × 9 1/2 inches
DL	110 × 220 mm
C5	162 × 229 mm

You will probably use one paper size most of the time. For your convenience, you can use the SelecType Level 1 SAVE MACRO option so that the paper size you *use* most often is automatically selected whenever you turn on, reset, or initialize your printer. See Chapter 3 for details.

Material	Feed	Delivery
Regular Paper (60 – 90 g/m <sup>2</sup> ) (16 – 24 lb.)	Auto or manual	Face-up or face-down
Heavy Paper (90 – 157 g/m <sup>2</sup> ) (24 – 42 lb.)	Manual or auto	Face-up
Envelopes	Manual or auto	Face-up or face-awn
Transparencies	Manual	Face-up or face-down
labels	Manual	Face-up

Note: To print on letterhead paper, load the paper face-up with 1 the top of the page entering the printer first.

**Installation/Support Tips****Set Up**

1. Install the font cartridge or the HPGL card only when the *power is off*.
2. Do not use the memory share feature unless you have installed optional memory. If you set this option before adding memory, you could damage the printer.
3. The rear cover or the face-up output tray drive unit must be installed when you turn on the printer.

**Software**

1. When using software packages with the EPL-7000, select HP LaserJet series IIP as the printer. If this is not available, select HP LaserJet series II. If neither is available, select HP LaserJet +.
2. If you are using a font cartridge, ensure that the software is set up to support it.

Compatibility Check Table for Font Cartridges

406	HP C2053A #C05	HP Forms, Etc.	Hewlett Packard	**
407	HP C2053A #C06	HP Bar Codes & More	Hewlett Packard	**
408	HP C2053A #C07	Text Equations	Hewlett Packard	**
401	HP C2053A #C08	Global Text	Hewlett Packard	**
	HP 92286IC	International Collection	Hewlett Packard	**
380	B	B Hard Font Cartridge	Everex Systems, Inc	**
412	F	F Hard Font Cartridge	Everex Systems, Inc	**
413	T	T Hard Font Cartridge	Everex Systems, Inc	**
381	Z	Z Hard Font Cartridge	Everex Systems, Inc	**
387	BST	BST Hard Font Cartridge	Everex Systems, Inc	**
382	LGL	LGL Hard Font Cartridge	Everex Systems, Inc	**
383	SST	SST Hard Font Cartridge	Everex Systems, Inc	**
378	ALL-in-1	All-in-1 Hard Font Cartridge	Everex Systems, Inc	**
379	A-to-Z	A-to-Z Hard Font Cartridge	Everex Systems, Inc	**
37	25 in One 103	25 Cartridges in One "103"	Pacific Data Products	OK*
409	25 in One 172	25 Cartridges in One "172"	Pacific Data Products	OK
	25 in One 172 III	25 Cartridges in One "172" III	Pacific Data Products	**
446	Headlines	Headlines in a Cartridges	Pacific Data Products	**
394	S, C, 1	Super Cartridge 1	IQ Engineering	**
396	S, C, 2	Super Cartridge 2	IQ Engineering	**
395	S, C, 2L	Super Cartridge 2L	IQ Engineering	-
393	S, C, 2LC	Super Cartridge 2LC	IQ Engineering	OK
392	S, C, 2WP	Super Cartridge 2WP	IQ Engineering	**
390	JF 12/30	JetFont 12/30	Computer Peripherals, Inc	**
391	JF 4-IN-1	JetFont 4-IN-1	Computer Peripherals, Inc	**
389	JF S	JetFont Super Set	Computer Peripherals, Inc	**
388	JF SI	JetFont Superset International	Computer Peripherals, Inc	**
410	IF P2	InterFont Pro IIP	Intercon Associates, Inc	-
411	IF PH+	InterFont PHont +	Intercon Associates, Inc	OK
384	LC 65	LaserJet Compatible 65-in One	UPD Data Products, Inc	-
385	LC H	LaserJet Compatible Helv	UPD Data Products, Inc	-
386	LC T	LaserJet Compatible TmsRmn	UPD Data Products, Inc	-
		Turbo25	UDP Data Products, Inc	OK

Compatibility Check Table for Font Cartridges

No	Part Code	Font Cartridge Name	Vender	
44	HP 92286A	Courier 1	Hewlett Packard	OK
45	HP 92286B	TmsRms Proportional 1	Hewlett Packard	..
46	HP 92286C	International 1	Hewlett Packard	..
47	HP 92286D	Prestige Elite	Hewlett Packard	..
48	HP 92286E	Letter Gothic	Hewlett Packard	..
49	HP 92286F	TmsRms Proportional 2	Hewlett Packard	..
50	HP 92286G	Legal Elite	Hewlett Packard	..
51	HP 92286H	Legal Courier	Hewlett Packard	..
52	HP 92286J	Math Elite	Hewlett Packard	..
53	HP 92286K	Math TmsRms	Hewlett Packard	..
54	HP 92286L	Courier P & L	Hewlett Packard	..
55	HP 92286M	Prestige Elite P & L	Hewlett Packard	..
56	HP 92286N	Letter Gothic P & L	Hewlett Packard	..
57	HP 92286P	TmsRms P & L	Hewlett Packard	..
58	HP 92286Q	Memo 1	Hewlett Packard	..
59	HP 92286R	Presentation 1	Hewlett Packard	..
60	HP 92286T	Tax 1	Hewlett Packard	..
61	HP 92286U	Forms Portrait	Hewlett Packard	..
62	HP 92286V	Forms Landscape	Hewlett Packard	..
63	HP 92286W	3-of-9/OCR-A	Hewlett Packard	..
64	HP 92286X	EAN/UPC/OCR-B	Hewlett Packard	..
65	HP 92286Y	PC Courier 1	Hewlett Packard	..
66	HP 92286Z	Microsoft 1A	Hewlett Packard	..
399	HP 92290S1	TmsRmn Courier Document 1	Hewlett Packard	..
398	HP 92290S2	TmsRmn/Helv Report 1	Hewlett Packard	..
397	HP 92286PC	ProCollection	Hewlett Packard	..
400	HP C2055A #C01	HP Great Start	Hewlett Packard	..
402	HP C2053A #C01	HP Word Perfect	Hewlett Packard	..
403	HP C2053A #C02	HP Microsoft	Hewlett Packard	..
404	HP C2053A #C03	HP Polished Worksheets	Hewlett Packard	..
405	HP C2053A #C04	HP Persuasive Presentations	Hewlett Packard	..

440	AJ MO	AlphaJet Maxi-One	Anacom General Corp	
441	AJ MP	AlphaJet Maxi-Pro	Anacom General Corp	